

eject, in the form of viscous drops or short cirrhi, an orange substance which is very aromatic, and consists of very thin, ovoid corpuscles (*spermatia*). It is to these alone that the agreeable odour of the *Uredo suaveolens* and many other Uredines is due. The spermatia are produced at the apices of filiform basidia.

The *Ustilagines*, which are very nearly allied to the Uredines, present certain peculiarities in the vegetation of their reproductive bodies. The oblong cell, which is produced from the spores of *Ustilago antherarum*, Tul., becoming soon detached to live independently*, must apparently be compared to the secondary spores of *Æcidium Puccinia*, and other Uredines above described. In *Ustilago receptaculorum*, Fr., utricles, doubtless analogous with these secondary spores, are produced on an imperfectly developed *promycelium*, composed only of a few cells, but which resembles that of *Æcidium Euphorbiæ sylvestris*.—*Comptes Rendus*, June 20, 1853, p. 1093.

METEOROLOGICAL OBSERVATIONS FOR JULY 1853.

Chiswick.—July 1. Showery. 2. Cloudy. 3. Cloudy and fine. 4. Very fine. 5. Overcast : fine : clear. 6. Overcast and fine. 7. Uniform haze : sultry : much lightning, with thunder and rain at night. 8. Cloudy : lightning at night. 9. Rain : cloudy. 10. Cloudy : clear. 11. Densely overcast : cloudy and fine. 12. Very fine. 13. Very fine : slight haze : very heavy rain at night. 14. Constant rain. 15. Heavy showers. 16. Showery. 17. Cloudy and fine : very clear. 18. Heavy showers. 19. Showery : clear. 20. Uniform haze : very fine. 21. Rain : cloudy. 22. Overcast : slight rain. 23. Very fine. 24. Cloudy. 25. Very fine : rain at night. 26. Cloudy. 27. Cloudy and fine : thunder, lightning and very heavy rain at night. 28. Rain : cloudy : showery. 29. Fine : rain. 30. Fine : boisterous : clear at night. 31. Clear : cloudy : overcast.

Mean temperature of the month	61° 99
Mean temperature of July 1852	67 · 61
Mean temperature of July for the last twenty-seven years .	63 · 22
Average amount of rain in July	2·29 inches.

Boston.—July 1. Fine : rain P.M. 2. Fine. 3. Cloudy. 4. Cloudy. 5. Cloudy : rain P.M. 6—8. Cloudy. 9. Cloudy : rain, thunder and lightning A.M. 10. Cloudy. 11. Cloudy : rain A.M. 12, 13. Fine. 14. Rain : rain A.M. and P.M. 15. Cloudy. 16, 17. Cloudy : rain A.M. 18. Cloudy : rain A.M. and P.M. 19. Cloudy. 20. Cloudy : rain A.M. and P.M. 21. Cloudy. 22. Fine. 23. Cloudy. 24, 25. Fine. 26. Rain : rain A.M. and P.M. 27. Cloudy. 28. Cloudy : rain A.M. 29. Fine. 30. Cloudy : rain A.M. 31. Cloudy : rain P.M.

Sandwich Manse, Orkney.—July 1. Bright A.M. : drops P.M. 2. Showers A.M. : fair P.M. 3. Rain A.M. : fair P.M. 4, 5. Cloudy A.M. : rain P.M. 6. Bright A.M. : cloudy P.M. 7. Drops A.M. : cloudy P.M. 8. Bright A.M. : cloudy P.M. 9. Clear A.M. : cloudy P.M. 10, 11. Bright A.M. : cloudy P.M. 12. Bright A.M. : clear P.M. 13. Clear A.M. : cloudy P.M. 14. Clear A.M. : rain P.M. 15. Showers A.M. : cloudy P.M. 16—18. Bright A.M. : clear P.M. 19. Bright, fine A.M. : clear P.M. 20. Rain A.M. and P.M. 21. Damp A.M. and P.M. 22. Damp A.M. : clear P.M. 23. Clear, fine A.M. : cloudy P.M. 24. Rain A.M. : clear P.M. 25. Bright A.M. : clear P.M. 26. Showers A.M. : damp P.M. 27. Showers A.M. and P.M. 28. Fine A.M. : clear P.M. 29. Drizzle A.M. : clear P.M. 30. Bright A.M. : fair P.M. 31. Bright A.M. : fine P.M.

Mean temperature of July for twenty-six previous years	54° 93
Mean temperature of July 1852	61 · 36
Mean temperature of this month	58 · 15
Average quantity of rain in July for seven previous years ...	2·69 inches.

* Ann. des Sci. Nat. 3rd série, t. vii.